

CONTENTS

Volume 12, Issue Nos. 1-6 (1984)

EARTHQUAKE ENGINEERING AND STRUCTURAL DYNAMICS

Issue No. 1, JANUARY-FEBRUARY

Intensity of Waves in a Randomly Non-homogeneous Layered Medium: Z. Hryniewicz	1
Some Error Bounds and Numerical Experiments in Modal Methods for Dynamics of Systems: I. Gladwell and P. M. Hanson	9
Effect of Topography and Subsurface Inhomogeneity on Seismic Rayleigh Waves: A. Ohtsuki, H. Yamahara and K. Harumi	37
Dynamic Response of Pipelines to Moving Loads: S. K. Datta, T. Chakraborty and A. H. Shah	59
Dynamic Response of 3-D Rigid Surface Foundations by Time Domain Boundary Element Method: D. L. Karabalis and D. E. Beskos	73
Effect of Epicentral Direction on Seismic Response of Asymmetric Buildings: M. Di Paola and G. Muscolino	95
On the Effective Seismic Input for Non-linear Soil-Structure Interaction Systems: J. Bielak and P. Christiano	107
Modal Decomposition Method for Stationary Response of Non-classically Damped Systems: T. Igusa, A. Der Kiureghian and J. L. Sackman	121
SHORT COMMUNICATIONS	
An Exact Numerical Time Integration of Scalar Equations for Undamped Structural Systems: J. Kujawski and C. S. Desai	137
Comment on a Paper by Westermo and Udvardia: C. A. Prato	143
Authors' Reply to Preceding Comment: B. Westermo and F. Udvardia	144
ANNOUNCEMENTS	144

Issue No. 2, MARCH-APRIL

Hazardous Buildings: Aspects of the Los Angeles Earthquake Problem: D. M. Lee and R. Shepherd	149
Transient Flexural Vibrations of a Timoshenko Column Supported by an Elastic Half-space: H. Wada	169
Dynamic Response of Twin Circular Tunnels due to Incident SH-waves: T. Balendra, D. P. Thambiratnam, C. G. Koh and S-L. Lee	181
The Optimum Design of a Base Isolation System with Frictional Elements: M. C. Constantinou and I. G. Tadjbakhsh	203

Indexed or abstracted by 'Current Contents' and other leading Indexing/Abstracting Services.

Cladding Influence on Dynamic Response of Tall Buildings: H. Palsson, B. J. Goodno, J. I. Craig and K. M. Will	215
An Alternative Approach to the Random Response of Bilinear Hysteretic Systems: K. Asano and W. D. Iwan	229
Soil-Structure Interaction Effects on the Steady-state Response of Torsionally Coupled Buildings: T. G. Tsicnias and G. L. Hutchinson	237
Earthquake Response of Structures with Partial Uplift on Winkler Foundation: C-S. Yim and A. K. Chopra	263
BOOK REVIEWS	283
ANNOUNCEMENTS	284

Issue No. 3, MAY-JUNE

Seismic Analysis of a Rotor-bearing System: V. Srinivasan and A. H. Soni	287
A Linear Mathematical Model for the Seismic Inplane Behaviour of Brick Masonry Walls Part 1: Theoretical Considerations: Y. Mengi, H. Sucuoğlu and H. D. McNiven	313
A Linear Mathematical Model for the Seismic Inplane Behaviour of Brick Masonry Walls Part 2: Determination of Model Parameters Through Optimization Using Experimental Data: H. Sucuoğlu, Y. Mengi and H. D. McNiven	327
Finite Element versus Simplified Methods in the Seismic Analysis of Underground Structures: A. Gómez-Massó and I. Attalla	347
Evaluation of Deformation of Tunnel Structure due to Izu-Oshima-Kinkai Earthquake of 1978: H. Kawakami	369
Dynamic-stiffness Matrix of Soil by the Boundary-element Method: Conceptual Aspects: J. P. Wolf and G. R. Darbre	385
Dynamic-stiffness Matrix of Soil by the Boundary-element Method: Embedded Foundation: J. P. Wolf and G. R. Darbre	401
On the Solution of Approximated Systems When Using Reduced Component Modes: K. F. Martin and K. H. Ghilaim	417
SHORT COMMUNICATION	
Response to Wind of a Model Chimney with Added Damping: H. Dosanjh and D. J. Johns	427
CONFERENCE DIARY	431

Issue No. 4, JULY-AUGUST

Dynamic Phenomena in Ropeways after a Haul Rope Rupture: B. Portier	433
A Comparison of Approximate Techniques for Non-linear Seismic Soil Response: A. Corsanego, G. Solari and D. Stura	451

Vibrations of Beams with an Absorber Consisting of a Viscoelastic Solid and a Beam: H. Yamaguchi and H. Saito	467
The Generation of Spectrum Compatible Accelerograms for the Design of Nuclear Power Plants: A. Preumont	481
Use of Ritz Vectors in Wave Propagation and Foundation Response: E. P. Bayo and E. L. Wilson	499
Complex Response Analysis of Shells of Revolution Including Uniform Base Translation and Rocking: B-J. Lee and P. L. Gould	507
Efficient Analysis of Dynamic Response of Linear Systems: A. S. Veletsos and C. E. Ventura	521
Low-frequency Transfer of Seismic Energy by Superficial Soil Deposits and Soft Rocks: B. Mohammadioun and A. Pecker	537
Dynamic Analysis of Structures Using Lanczos Co-ordinates: B. Nour-Omid and R. W. Clough	565
CONFERENCE DIARY	579

Issue No. 5, SEPTEMBER-OCTOBER

Some Methods for the Analysis of Equipment-Structure Interaction: T. J. Ingham and J. L. Sackman	583
Reliability of Structures Subjected to Differential Fault Slip: A. S. Kiremidjian	603
Dynamic Eccentricity of Structures Subjected to S-H Waves: S. T. Wu and E. V. Leyendecker	619
Free Vibration of Asymmetric Shear Wall-Frame Buildings: T. Balendra, S. Swaddiwudhipong, S-T. Quek and S-L. Lee	629
Vibrations of Corner Point Supported Shallow Shells of Rectangular Planform: Y. Narita and A. W. Leissa	651
Earthquake Analysis of Concrete Gravity Dams Including Reservoir Bottom Absorption and Dam-Water-Foundation Rock Interaction: G. Fenves and A. K. Chopra	663
Seismic Response of Base-isolated Structures with Vertical-rocking Coupling: T-C. Pan and J. M. Kelly	681
SHORT COMMUNICATIONS	
Modal Base Forces in Structures Having a Straight-line Mode of Vibration: G. R. Darbre	703
Free Vibration Analysis of Rectangular Plates with Cutouts Allowing for Transverse Shear Deformation and Rotary Inertia: G. Aksu	709
Discussion on a Paper by R. E. Cornwell, R. R. Craig, Jr. and C. P. Johnson: S. A. Anagnostopoulos	715
Reply by Authors	716
IAEE NEWS	719
CONFERENCE DIARY	720

Issue No. 6, NOVEMBER-DECEMBER

Inelastic Seismic Analysis of a Building Structure Designed by Argentine Codes: V. E. Sonzogni, A. Cardona and S. R. Idelsohn	721
Response of Secondary Systems in Structures Subjected to Transient Excitation: A. G. Hernried and J. L. Sackman	737
Some Observations on the Probabilistic Interpretation of Short-term Earthquake Precursors: G. Grandori, E. Guagenti and F. Perotti	749
A Higher Order Continuum Model for the Dynamic Shear Behaviour of Multi-storey Frames: C. Dündar, Y. Mengi and E. Kiral	761
Stochastic Seismic Sliding of Rigid Mass Supported Through Non-symmetric Friction: M. C. Constantinou, G. Gazetas and I. Tadjbakhsh	777
Effect of Lateral Inhomogeneity on Seismic Waves, II. Observations and Analyses: A. Ohtsuki, H. Yamahara and T. Tazoh	795
A Numerical Model for Seismic Analysis of Masonry Buildings: Experimental Correlations: D. Benedetti and G. M. Benzoni	817
Statistical Analysis of the Inelastic Response of Shear Structures Subjected to Earthquakes: G. Rega and F. Vestroni	833
SHORT COMMUNICATIONS	
Vibration of Continuous Skew Plates: T. Mizusawa and T. Kajita	847
Discussion on a Paper by B. F. Maison, C. F. Neuss and K. Kasai: S. A. Anagnostopoulos	851
BOOK REVIEWS	853
ANNOUNCEMENT	854
CONFERENCE DIARY	855
Author Index	856

